

Europäisches Patentamt European Patent Office Office européen des brevets



11 Publication number:

0 408 535 A1

(12)

EUROPEAN PATENT APPLICATION

(1) Application number: 90850270.1

(s) Int. Cl.⁵: C23C 16/40, C23C 16/30, C23C 30/00

22 Date of filing: 12.07.90

© Priority: 13.07.89 EP 89850230

Oate of publication of application: 16.01.91 Bulletin 91/03

Designated Contracting States:

AT DE FR GB IT SE

Applicant: SECO TOOLS AB

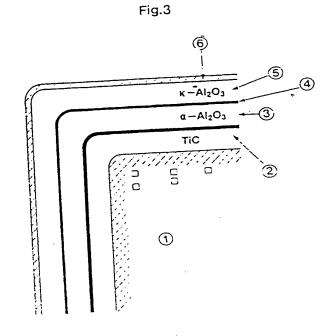
S-773 01 Fagersta(SE)

Inventor: Ruppi, Sakari Antero Bragevägen 13 G S-773 00 Fagersta(SE)

Representative: Taquist, Lennart et al Sandvik AB Patents & Licences Fackack S-811 81 Sandviken 1(SE)

Multi-oxide coated carbide body and method of producing the same.

[37] Improved properties of aluminum oxide wear layers on cemented carbides and related substrates can be obtained by combining the two alumina polymorphs (α-Al₂O₃ and kappa-Al₂O₃) as multilayers. The nucleation of α-Al₂O₃ and kappa-Al₂O₃ can be controlled by means of modification layers. According to this invention, it is thus possible to CVD-deposit an oxide multicoating layer consisting of clearly specified layers of α-Al₂O₃ and kappa-Al₂O₃. Preferably, α-Al₂O₃ is deposited first by CVD on a TiC coated cemented carbide substrate followed by the said coating layer of kappa-Al₂O₃.



, 408 535 A1